

PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
7475-29603SERIAL NO.
08/869,275

LIST OF PRIOR ART CITED BY APPLICANT

APPLICANT
Carl T. Wittwer et al.FILING DATE
June 4, 1997GROUP
~~2505~~ 1655

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	AA	5,585,242	12/17/96	BOUMA ET AL.	435	6	
AM	AB	5,565,322	10/15/96	HELLER	435	6	
AM	AC	5,563,037	10/08/96	SUTHERLAND ET AL.	435	6	
AM	AD	5,455,175	10/03/95	WITTWER ET AL.	435	286.1	
AM	AE	5,436,134	07/25/95	HAUGLAND ET AL.	435	34	
AM	AF	5,425,921	06/20/95	COAKLEY ET AL.	422	102	
AM	AG	5,415,839	05/16/95	ZAUN ET AL.	422	64	
AM	AH	5,380,489	01/10/95	SUTTON ET AL.	422	68.1	
AM	AI	5,364,790	11/15/94	ATWOOD ET AL.	435	288	
AM	AJ	5,348,853	09/20/94	WANG ET AL.	435	6	
AM	AK	5,346,672	09/13/94	STAPLETON ET AL.	422	102	
AM	AL	5,333,675	08/02/94	MULLIS ET AL.	165	12	
AM	AM	5,316,913	05/31/94	BUTCHER ET AL.	435	7.24	
AM	AN	5,240,577	08/31/93	JORGENSEN ET AL.	204	180.1	
AM	AO	5,234,586	08/10/93	AFEYAN ET AL.	210	198.2	
AM	AP	5,187,084	02/16/93	HALLSBY	435	91	
AM	AQ	5,173,163	12/22/92	TEHRANI	204	299R	
AM	AR	5,169,521	12/08/92	OKA ET AL.	210	198.2	
AM	AS	5,169,511	12/08/92	ALLINGTON ET AL.	204	299R	
AM	AT	5,141,621	08/25/92	ZARE ET AL.	204	229R	
AM	AU	5,137,695	08/11/92	RUSNAK ET AL.	422	116	
AM	AV	5,131,998	07/21/92	JORGENSEN ET AL.	204	299R	
AM	AW	5,116,471	05/26/92	CHIEN ET AL.	204	180.1	
AM	AX	5,114,551	05/19/92	HJERTEN ET AL.	204	180.1	
AM	AY	5,038,852	08/13/91	JOHNSON ET AL.	165	12	
AM	AZ	4,981,801	01/01/91	SUZUKI ET AL.	435	298	

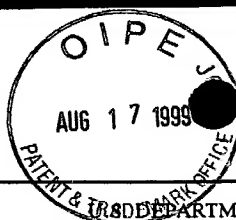
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Adrian Maslof

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PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 7475-29603	SERIAL NO. 08/869,275
	APPLICANT Carl T. Wittwer et al.	
	FILING DATE June 4, 1997	GROUP 2503 1655

LIST OF PRIOR ART CITED BY APPLICANT**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	BA	4,965,188	10/23/90	MULLIS ET AL.	435	6	
AM	BB	4,902,624	02/20/90	COLUMBUS ET AL.	435	316	
AM	BC	4,889,818	12/26/89	GELFAND ET AL.	435	194	
AM	BD	4,868,103	09/19/89	STAVRIANOPOULOS ET AL.	435	5	
AM	BE	4,865,986	09/12/89	COY ET AL.	435	290	
AM	BF	4,708,782	11/24/87	ANDRESEN ET AL.	204	299R	
AM	BG	4,701,415	10/20/87	DUTTON ET AL.	435	289	
AM	BH	4,684,465	08/04/87	LEASEBURGE ET AL.	210	198.2	
AM	BI	4,683,202	07/28/87	MULLIS	435	91	
AM	BJ	4,683,195	07/28/87	MULLIS ET AL.	435	6	
AM	BK	4,675,300	06/23/87	ZARE ET AL.	436	172	
AM	BL	4,599,169	07/08/86	RAY	210	175	
AM	BM	4,481,405	11/06/84	MALICK	219	405	
AM	BN	4,468,423	08/28/84	HALL	428	72	
AM	BO	4,420,679	12/13/83	HOWE	219	400	
AM	BP	4,286,456	09/01/81	SISTI ET AL.	73	23.1	
AM	BQ	4,168,017	09/18/79	ANDERWALD	222	48	
AM	BR	4,038,055	07/25/77	VARANO ET AL.	59	197	
AM	BS	3,616,264	10/26/71	RAY ET AL.	195	127	
AM	BT	2,379,474	07/03/45	BRAMSON	237	3	
AM	BU	1,456,005	05/22/23	HARRIS			
AM	BV	1,006,767	10/24/11	MAUGER			
AM	BW	5,210,015	5/11/93	GELFAND ET AL.	435	6	
AM	BX	3,219,416	11/23/65	NATELSON	23	253	

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Sheet 3 of 7

PTO-1449

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AM	CA	0 640 828 A1	08/16/94 3/1/95	EPO, Higuchi et al.	_____	_____		
AM	CB	0 488 769 A2	11/09/91 6/3/92	EPO, Mossa et al.	_____	_____		
AM	CC	0 475 760 A2	09/12/91 3/18/92	EPO, Jorgenson et al.	_____	_____		
AM	CD	0 459 241 A1	03/16/91 12/4/91	EPO, Fuchs et al.	_____	_____		
AM	CE	0 236 069 A2	03/24/87 9/9/87	EPO, Johnson et al.	_____	_____		
AM	CF	0 229 943 A2	04/17/83 7/29/87	EPO, Heller et al.	_____	_____		
AM	CG	0 566 751	10/27/93	EPO, Bannwarth et al.	_____	_____		
AM	CH	0 636 413	2/1/95	EPO, Hall et al.	_____	_____		
AM	CI	0 318 255	5/31/89	EPO, Columbus et al.	_____	_____		
AM	CJ	0 674 009	9/27/95	EPO, Cottingham et al.	_____	_____		
AM	CK	0 404 258	12/27/90	EPO, Bonini	_____	_____		
AM	CL	0 686 699	12/13/95	EPO, Atwood	_____	_____		
AM	CM	0 643 140	3/15/95	EPO, Yamamoto et al.	_____	_____		
AM	CN	3 808 942 A1	09/28/89	DE, Louis et al.	_____	_____		
AM	CO	6 212 986	03/23/87	JP (Abstract)	_____	_____		
AM	CP	2 122 187	8/25/72	FR	_____	_____		
AM	CQ	WO 95 13399	5/18/95	PCT, Tryggvason et al.	_____	_____		
AM	CR	WO 95 21382	8/10/95	PCT, Fields	_____	_____		
AM	CS	WO 96 06354	2/29/96	PCT, Cathey et al.	_____	_____		
AM	CT	WO 96 00901	1/11/96	PCT, Selom et al.	_____	_____		
AM	CU	WO 95 32306	11/30/95	PCT, Wang et al.	_____	_____		
AM	CV	WO 95 30139	11/09/95	PCT, Woudenberg et al.	_____	_____		
AM	CW	WO 92 20778	11/26/92	PCT, Corbett et al.	_____	_____		
AM	CX	WO 89 09437	10/05/89	PCT, Deem et al.	_____	_____		

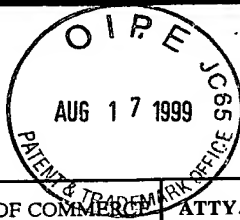
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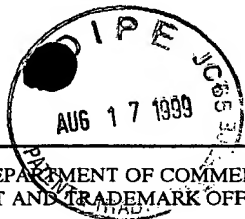
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LIST OF PRIOR ART CITED BY APPLICANT			APPLICANT Carl T. Wittwer et al.	
			FILING DATE June 4, 1997	GROUP 2505 1655
OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)				
AM	DA		Barnes, W.M., "PCR Amplification of up to 35-kb DNA with High Fidelity and High Yield from λ Bacteriophage Templates," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 91, pp. 2216-2220 (1994).	
AM	DB		Brown, A.B., et al., "Rapid Cycle Amplification For Construction of Competitive Templates," <u>Genetic Engineering with PCR</u> , Edited by: Horton, R.M., Horizon Scientific Press, Wymondham, U.K., Chap. 4 (1997)	
AM	DC		Cao, T.M., "A Simple and Inexpensive System to Amplify DNA by PCR," <u>BioTechniques</u> , Vol. 7, No. 6, pp. 566-67 (1989).	
AM	DE		Cardullo, R.A., et al., "Detection of Nucleic Acid Hybridization by Nonradiative Fluorescence Resonance Energy Transfer," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 85, pp. 8790-94 (1988).	
AM	DF		Cotton, R. G. H., "Detection of Single Base Changes in Nucleic Acids," <u>The Biochemical Journal</u> , Vol. 263, pp. 1-10, October 1, 1989.	
AM	DG		Denton, P., et al., "A Low-Cost Air-Driven Cycling Oven," <u>PCR Protocols: A Guide to Methods and Applications</u> , Edited by M.A. Innis, et al., Academic Press, Inc., San Diego, Chap. 52, pp. 435-41 (1990).	
AM	DH		Findlay, J.B., et al., "Automated Closed-Vessel System for in Vitro Diagnostics Based on Polymerase Chain Reaction," <u>Clinical Chemistry</u> , Vol. 39, No. 9, pp. 1927-33 (1993).	
AM	DI		Ghosh, S.S., et al., "Real Time Kinetics of Reduction Endonuclease Cleavage Monitored by Fluorescence Resonance Energy Transfer," <u>Nucleic Acids Research</u> , Vol. 22, No. 15, pp. 3155-59 (1994).	
AM	DJ		Goldner, H., "PCR update: New Techniques Multiply Uses," <u>R&D Magazine</u> , Vol. 36, No. 4, pp. 55 (March 1994).	
AM	DK		Graham, A., "A Haystack of Needles: Applying the Polymerase Chain Reaction," <u>Chemistry and Industry</u> , No. 18, pp. 718 (19 September 1994).	
AM	DL		Gustafson, C.E., et al., "Effect of Heat Denaturation of Target DNA on the PCR Amplification," <u>Gene</u> , Vol. 123, pp. 241-44 (1993).	
AM	DM		Higuchi, R., et al., "Simultaneous Amplification and Detection of Specific DNA Sequences," <u>Bio/Technology</u> , Vol. 10, pp. 413-17 (1992).	
AM	DN		Higuchi, R., et al., "Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reactions," <u>Bio/Technology</u> , Vol. 11, pp. 1026-30 (1993).	
AM	DO		Hillen, W., et al., "High Resolution Experimental and Theoretical Thermal Denaturation Studies on Small Overlapping Restriction Fragments Containing the <i>Escherichia coli</i> Lactose Genetic Control Region," <u>The Journal of Biological Chemistry</u> , Vol. 256, No. 6, pp. 2761-2766 (1981).	
AM	DP		Hiyoshi, M., et al., "Assay of DNA Denaturation by Polymerase Chain Reaction-Driven Fluorescence Resonance Energy Transfer," <u>Analytical Biochemistry</u> , Vol. 221, pp. 306-11 (1994).	
AM	DQ		Hoffman, L.M., et al., "Use of a Gas Chromatograph Oven for DNA Amplification by the Polymerase Chain Reaction," <u>BioTechniques</u> , Vol. 6, No. 10, pp. 932-36 (1988).	
AM	DR		Holland, P.M., et al., "Detection of Specific Polymerase Chain Reaction Product by Utilizing the 5' 3' Exonuclease Activity of <i>Thermus Aquaticus</i> DNA Polymerase," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 88, pp. 7276-80 (1991).	
AM	DS		Hopfenbeck, J.A., et al., "Digoxigenin-Labeled Probes Amplified from Genomic DNA Detect T-Cell Gene Rearrangements," <u>American Journal of Clinical Pathology</u> , Vol. 97, No. 5, pp. 638-44 (1992).	
EXAMINER Aedin Manshel			DATE CONSIDERED 11-8-99	
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OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

AM	DY	Ishiguro, T., et al., "Homogeneous Quantitative Assay of Hepatitis C Virus RNA by Polymerase Chain Reaction in the Presence of a Fluorescent Intercalater," <u>Analytical Biochemistry</u> , Vol. 229, pp. 207-13 (1995).
AM	DZ	Kang, J., et al., "Exact Quantification of DNA-RNA Copy Numbers by PCR-TGGE," <u>PCR Strategies</u> , Academic Press, Inc., Chap 15, pp. 189-98 (1995).
AM	EA	Ke, S., et al., "Influence of Nearest Neighbor Sequence on the Stability of Base Pair Mismatches in Long DNA: Determined by Temperature-Gradient Gel Electrophoresis," <u>Nucleic Acids Research</u> , Vol. 21, No. 22, pp. 5137-43 (1993).
AM	EB	Lee, L.G., et al., "Allelic Discrimination by Nick-Translation PCR with Fluorogenic Probes," <u>Nucleic Acids Research</u> , Vol. 21, No. 16, pp. 3761-66 (1993).
AM	EC	Linz, U., "Thermocycler Temperature Variation Invalidates PCR Results," <u>Biotechniques</u> , Vol. 9, No. 3, pp. 286-90 (1990).
AM	ED	Livak, K.J., et al., "Oligonucleotides with Fluorescent Dyes at Opposite Ends Provide a Quenched Probe System Useful for Detecting PCR Product and Nucleic Acid Hybridization," <u>PCR Methods and Applications</u> , Vol. 4, pp. 357-62 (1995).
AM	EE	Livak, K.J., "Quantitation of DNA/RNA Using Real-Time PCR Detection," <u>Perkin-Elmer Applied Biosystems Report</u> (1996).
AM	EF	Morrison, L.E., "Detection of Energy Transfer and Fluorescence Quenching," <u>Nonisotopic DNA Probe Techniques</u> , Edited by: Larry J. Kricka, Academic Press, Inc., San Diego, Chap. 13, pp. 311-52 (1992).
AM	EG	Morrison, L.E., et al., "Sensitive Fluorescence-Based Thermodynamic and Kinetic Measurements of DNA Hybridization in Solution," <u>Biochemistry</u> , Vol. 32, pp. 3095-3104 (1993).
AM	EH	Nilsson, P., et al., "Real-Time Monitoring of DNA Manipulations Using Biosensor Technology," <u>Analytic Biochemistry</u> , Vol. 224, pp. 400-408 (1995).
AM	EI	Oste, C.C., "PCR Instrumentation: Where Do We Stand?," <u>The Polymerase Chain Reaction</u> , Edited by Mullis, et al., Birkhauser, Boston, Chap. 14 (1994).
	EJ	Perry, R.H., et al., "Heat Transmission by Radiation," <u>Chemical Engineers' Handbook</u>, 5th ed., McGraw Hill Book Co., New York, Chap. 10, pp. 48-56 (1977).
AM	EK	Ririe, K.M., et al., "Product Differentiation by Analysis of DNA Melting Curves during the Polymerase Chain Reaction," <u>Analytical Biochemistry</u> , Vol. 254, pp. 154-160 (1997).
AM	EL	Segal, G.H., et al., "Identification of Monoclonal B-cell Populations by Rapid Cycle Polymerase Chain Reaction," <u>The American Journal of Pathology</u> , Vol. 141, No. 6, pp. 1291-97 (1992).
AM	EM	Service, R.E., "The Incredible Shrinking Laboratory: Microchips Allow Miniaturization of Analytical Laboratories," <u>Science</u> , Vol. 268, No. 5207, pp. 26 (7 April 1995).
AM	EN	Stimpson, D.I., "Real-time Detection of DNA Hybridization and Melting on Oligonucleotide Arrays by Using Optical Wave Guides," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 92, pp. 6379-83 (1995).
AM	EO	Swerdlow, H., et al., "Fully Automated DNA Reaction and Analysis in a Fluidic Capillary Instrument," <u>Anal. Chem.</u> , Vol. 69, pp. 848-855 (1997).
AM	EP	Tombler, E.R., et al., "Spectrofluorometric Assay for Hybridization of Oligodeoxynucleotides Using Ethidium Dimer," <u>BioTechniques</u> , Vol. 15, No. 6, pp.1060-64 (1993).

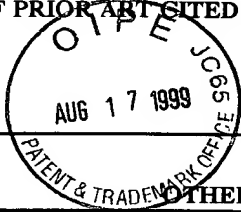
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				FILING DATE June 4, 1997	GROUP 2605 1655
OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)					
AM	EQ		Tyagi, S., et al., "Molecular Beacons: Probes that Fluoresce upon Hybridization," <u>Nature Biotechnology</u> , Vol. 14, pp. 303-08 (1996).		
AM	ER		Weis, J.H., et al., "Detection of Rare mRNAs via Quantitative RT-PCR," <u>Trends in Genetics</u> , Vol. 8, No. 8, pp. 263-64 (1992).		
AM	ES		Wilding, et al., "PCR in Silicon Microstructure," <u>Clinical Chemistry</u> , Vol. 40, No. 9, pp. 1815-18, (1994).		
	ET		Willard, H.H., et al., "Gas Chromatography," <u>Instrumental Methods of Analysis</u>, 6th ed., Wadsworth Publishing Co., Belmont, CA, Chap. 16, pp. 454 (1997).		
AM	EU		Wittwer, C.T., et al., "Minimizing the Time Required for DNA Amplification by Efficient Heat Transfer to Small Samples," <u>Analytical Biochemistry</u> , Vol. 186, pp. 328-31 (1990).		
AM	EV		Wittwer, C.T., et al., "Automated Polymerase Chain Reaction in Capillary Tubes with Hot Air," <u>Nucleic Acids Research</u> , Vol. 17, No. 11, pp. 4353-4357 (1989).		
AM	EW		Wittwer, C.T., et al., "Rapid Cycle DNA Amplification: Time and Temperature Optimization," <u>BioTechniques</u> , Vol. 10, No. 1, pp. 76-83 (1991).		
AM	EX		Wittwer, C.T., et al., "Rapid Cycle Allele-Specific Amplification: Studies with the Cystic Fibrosis ΔF_{508} Locus," <u>Clinical Chemistry</u> , Vol. 39, No. 5, pp. 804-809 (1993).		
AM	EY		Wittwer, C.T., et al., "Rapid Cycle DNA Amplification," <u>The Polymerase Chain Reaction</u> , Edited by: Mullis, et al., Birkhauser, Boston, Chap. 15 (1994).		
AM	EZ		Wittwer, C.T., et al., "Continuous Fluorescence Monitoring of Rapid Cycle DNA Amplification," <u>BioTechniques</u> , Vol. 22, pp. 130-138 (1997).		
AM	FA		Wittwer, C.T., et al., "The LightCycler: A Microvolume Multisample Fluorimeter with Rapid Temperature Control," <u>BioTechniques</u> , Vol. 22, pp. 176-181 (1997).		
AM	FB		Wittwer, C.T., et al., "Fluorescence Monitoring of Rapid Cycle PCR For Quantification," <u>Gene Quantification</u>, Edited by: Ferre, F., Birkhauser, Boston (1997).		
AM	FC		Yguerabide, J., et al., "Quantitative Fluorescence Method for Continuous Measurement of DNA Hybridization Kinetics Using a Fluorescent Intercalator," <u>Analytical Biochemistry</u> , Vol. 228, pp. 208-20 (1995).		
AM	FD		Biotherm Corporation Advertisement, BioOven (1991).		
AM	FE		Ericomp Advertisement, Twinblock System (1991).		
AM	FF		Techne Advertisement, PHC-1 Dri-Block (1988).		
AM	FG		Hybaid Advertisement, Hybaid Heating and Cooling Block (1988).		
AM	FH		Eppendorf Advertisement, Eppendorf MicroCycler (1988).		
AM	FI		COY Advertisement, Tempecycler Model 50 Microtube Incubator (1991).		
EXAMINER <i>Arden Marschel</i>			DATE CONSIDERED 11-8-99		
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<i>AM</i>	FJ	Idaho Technology Advertisement and Specification Sheets for 1605 Product (1991).					
<i>AM</i>	FK	Perkin-Elmer Advertisement, ABI Prism 7700 Sequence Detection System (1991).					
<i>AM</i>	FL	Clark, et al., "Cassettes Simplify Small-sample Dialysis," R&D Magazine, p.31, September 1995.					
<i>AM</i>	FM	"Let the Microchip Fall Where Diagnostics Lies: Implications: A Diagnostic Revolution?," Genesis Report-Dx, Vol. 4, No. 3 (1994).					
<i>AM</i>	FN	"Let the Microchip Fall Where Diagnostics Lies: Implications: Affymetrix: DNA on a Chip," Genesis Report-Dx, Vol. 4, No. 3 (1994).					
<i>AM</i>	FO	"PCR Detection Blows Cover on Lyme Disease, Q Fever," Biotechnology Newswatch, Vol. 10, No. 1 (Jan. 1, 1990).					
<i>AM</i>	FP	Schoffner et al., "Chip PCR. I. Surface passivation of microfabricated silicon-glass chips or PCR", <u>Nucleic Acids Research</u> , Vol. 24, No. 2, pp. 375-379, 1996.					
<i>AM</i>	FQ	Cheng et al., "Chip PCR. II. Investigation of different PCR amplification systems in microfabricated silicon-glass chips", <u>Nucleic Acids Research</u> , Vol. 24, No. 2, pp. 380-385, 1996.					
	FR	Operation manual for HP 5880A Gas Chromatograph					
<i>AM</i>	FS	Operation manual for the MIC 6000, <i>Jan, 1987</i>					
EXAMINER <i>Arden Mascher</i>				DATE CONSIDERED <i>11-8-99</i>			
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